

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of
BOUTENKO ET AL.

Application No. 09/516,122
Filed: 03/01/2000

: METHOD AND SYSTEM FOR CONTROL
OF EXPOSURE IN RADIOLOGICAL
IMAGING SYSTEMS
: Art Unit: 2882
: Examiner: Porta, David P.
: Confirmation No.

Date: June 22, 2006

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INFORMATION DISCLOSURE STATEMENT – CONCISE
EXPLANATION OF EACH NON-ENGLISH DOCUMENT

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

OFFICE OF PETITIONS

Sir:

The following is submitted in the above application in compliance with 37 CFR 1.97 and 37 CFR 1.98: a concise explanation of the non-English document(s) cited in the PTO-1449 or Substitute and any Search Report or communication from a non-US patent office or an International Search Report from an International Searching Authority for a patent application filed via the Patent Cooperation Treaty or document (s) cited in the application or the priority application. The concise explanation is based on an English language abstract available from publicly accessible databases of patents and non-patent documents or a translation, even if only partial, of the cited non-English documents. The concise explanation is not based on a review of a full text translation of the cited document and/or based on an abstract as published in a patent database and/or a translation of the text cited in the Search Report.

<u>Document</u>	<u>Concise Explanation</u>
DE 196 24 094	An X-ray imaging apparatus has a matrix detector (5) that is arranged behind a support (4) for an object (3) to be imaged. The magnification ratio is adjustable by varying the focus-detector distance (FDA) and the focus-object distance (FOA). The primary beam aperture (10) is also adjusted to adjust the X-ray beam (2) from the X-ray emitter (1). The X-ray emitter (1) emits a conical or pyramid shaped X-ray beam that is attenuated the aperture (10). The beam (2) passes through the object. The matrix detector (5) has detector elements for providing image generation. The detector signals are fed to a correction unit (7) that feeds digital images to a monitor (11). The apparatus is controlled by a control unit (9)

CERTIFICATE OF MAILING OR TRANSMISSION

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Jay L. Chaskin

Date: June 22, 2006

JP H05-335094 Prevention of an increase in exposure does to a subject and provide a stable fluoroscopic image. A tube voltage control circuit (6) feeds back x-ray output transmitted through the subject, and applies control voltage V_v to a high voltage generation circuit, thereby controlling FKV . This control voltage V_v and another voltage corresponding to SID are inputted to a tube current control circuit (8), and the tube current control voltage V_a basically proportional to the voltage V_v but so limited as to correspond to SID is obtained. This voltage V_a is, then, sent to a filament heating circuit (9) for controlling Fma .

JP H02-034159 Irradiating a shock wave concentration to a predetermined are by using a 3D ultrasonic imaging technique for a reference device. By moving ultrasonic transducers (48, 56) images of transducers are transferred to an ultrasonic image forming device (94) and an image monitor (72) through transducer switch (86). Information from the device (94) and a videotizer (100) are transmitted to a main computer (78), and a focus position of an ellipsoidal reflector (14) is focused to a calculus (18) by a step motor control circuit (124) and motors (126, 128, 130). When energy generator 132 is completely charged and becomes possible to begin the spark discharge, a starting switch of a spark discharge control unit (118) is activated to generate a spark discharge at an interval of a spark interval discharge unit (16).

JP S60-160599 Images of high quality are obtained by correcting changes in the quantity of X-rays reaching the surface of a film, that are caused by the distance changing with the movement of the irradiating device, by means of changing the number of pulses or the pulse width of the pulsed irradiation. A signal, that is proportional to the square of the distance between an X-ray tube (1) and a detection device (2), is inputted to a pulse-number setting circuit (6). The pulse-number setting circuit, including an A/D conversion circuit, generates a numerical output in inverse proportion to the input signal as the pulse-number setting output. A standard clock signal generating circuit (18) outputs the clock signal, that is counted by a counter contained in an irradiation signal generating circuit (17), and each time it reaches the numerical value of the pulse-number setting output given by the circuit (16), an irradiation signal with a certain width is generated. Therefore, the irradiation intervals change in inverse proportion to the square of the distance between the X-ray tube and the film, and the quantity of X-rays reaching the film surface is maintained at a constant level.

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Reply to Office Communication of: 02/27/2003
Docket No. 14XZ00060/GEM-0276

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Docket No. 14XZ00060/GEM-0276

JP -UM-H06-038398 In an X-ray apparatus the tube electric current exposure time product mAs is automatically reset and measurement of SID is large or small or temporary. The mAs, X-ray tube focus and the distance SID (between films) and a presetting storage are arranged to image thickness of an object and to store this data. An ultrasonic range finder measures the distance between the X-ray tube and the front face of the subject and calculates actual SID and actuates an audio sound when the measurement varies from a reference. A CPU resets the distance before energizing of the tube.

Respectfully submitted,

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By 

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Appln No. 09/516,122
Amtd. Dated 06/22/2006
Reply to Office Communication of 02/27/2003
Docket No. 14XZ00060/GEM-0276

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Appln No.
Applicant
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TC/A.U.

: 09/516,122 Confirmation No.
: BOUNTENKO ET AL. METHOD AND SYSTEM FOR CONTROL
: 03/01/2000 OF EXPOSURE IN RADIOLOGICAL
: 2882 IMAGING SYSTEMS

Examiner : Porta, David P.
Docket No. : 14XZ00060/GEM-0276

June 22, 2006

INFORMATION DISCLOSURE STATEMENT

- 1. Pursuant to 37CFR 1.97(b) [within three months of national, non-CPA filing or prior to first Office action on the merits, or prior to first Office action after filing an RCE] (no charge)
- 2. Certification Pursuant to 37 CFR 1.97(c) [before Final Office Action or Allowance] (no charge)
- 3. Fee Payment Pursuant to 37 CFR 1.97(c) [before Final Office Action or Allowance or other action closing the prosecution] (charge: \$180.00)
- 4. Certification & Fee Payment Pursuant to 37 CFR 1.97(d) [on or before issue fee payment] (charge: \$180.00)

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Sir:

The following are submitted in the above application in compliance with 37 CFR 1.97 and 37 CFR 1.98.

- 5. A list of documents on Form PTO-1449 or Substitute together with copies of each identified document and a translation thereof or a concise explanation of each non-English language document or a Search Report or communication from a non-US patent office or an International Search Report from an International Searching Authority for a patent application filed via the Patent Cooperation Treaty or document (s) cited in the application or the priority application.

This paper is submitted in accordance with:

06/26/2006 TBESHAI1 00000023 090470 09516122

- 6. 37 CFR 1.97(b): [within three months of national, non-CPA filing or prior to first Office action on the merits or prior to the first office action after filing an RCE]

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By Jay L. Chaskin

Date: June 22, 2006

Appln No. 09/516,122
Amdt. Dated 06/22/2006
Reply to Office Communication of 02/27/2003
Docket No. 14XZ00060/GEM-0276

Appln No.
Attorney Docket Number: 14XZ0060/GEM-0276

[x] 7. 37 CFR 1.97(c): [before Final Office Action or Allowance or other action closing prosecution, whichever is earlier]; and

[] 8. The required Certification made in item 11 below; or

[x] 9. The \$180.00 fee specified in 37 CFR 1.17(p) for submission of this Information Disclosure Statement is authorized in item 14 below.

[] 10. 37 CFR 1.97(d): [on or before issue fee payment]; and

a) The required Certification is stated in item 11 below and

b) The \$180.00 fee specified in 37 CFR 1.17(p) for submission of this Information Disclosure Statement is authorized in item 14 below.

[] 11. Certification

[] 12. Each item or information contained in this Statement was first cited in any Search Report or any communication from a non-US patent office or any International Search Report from an International Searching Authority for a patent application filed via the Patent Cooperation Treaty in a counterpart foreign patent application not more than three months prior to the filing of this Statement; or

[] 13. No item contained in this Statement was cited in a Search Report or communication from a non-US patent office or an International Search Report from an International Searching Authority for a patent application filed via the Patent Cooperation Treaty in a counterpart foreign patent application or, to the knowledge of the person signing this document after making reasonable inquiry, was known to any individual designated in 37 CFR 1.56(c) more than three (3) months prior to the filing date of this Statement.

[x] 14. Payment of all applicable fees:

[x] 14. Payment of all applicable fees:

Please charge all applicable fees associated with the submittal of this Information Disclosure Statement to Deposit Account No. 50-2513

Enclosed is a check in the amount of \$ _____ in payment of all applicable fees associated with the submittal of this Information Disclosure Statement.

An original and two (2) copies of this document is enclosed.

Respectfully submitted,

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GPO: 2006-100-000

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Sheet 2

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OFFICE OF PETITIONS

Application Number 09/516 122

Filing Date 03/01/2000

First Named Inventor: BOUTENKO

Art Unit 2882

Examiner Name Porta, David P.

Attorney Docket Number 14XZ00060/GE

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U. S. PATENT DOCUMENTS

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T ⁶
		Country Code ³ Number ⁴ Kind Code ⁵ (if known)				
		JP-UM-H06-038398 ✓	10-05-1994			
		EP 0 979 3927 A ✓	08-29-2001	Gen Electric		

Examiner Signature		Date Considered	
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Application Number	09/516,122
Filing Date	03/01/2000
Named Inventor	Boutenko
Unit	2882
Examiner Name	Porta, David P.
Counselor Docket Number	14XZ00060/GEM-0276

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U. S. PATENT DOCUMENTS

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T ⁶
		Country Code ³ Number ⁴ Kind Code ⁵ (if known)				
		DE 196 24 094 A	06-19-1997	Siemens		
		JP H01-077035 A /	03-23-1989	NEC		
		EP 0 754 474 A /	01-22-1997	Siemens		
		JP H05-335094 A /	12-17-1993	Shimadzu		
		JP H02-034159 A /	02-05-1990	Noosugeito Res		
		JP S60-160599 A /	08-22-1985	Shimadzu		

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